

Title (en)

ACTUATOR DEVICE BASED ON AN ELECTROACTIVE OR PHOTOACTIVE POLYMER

Title (de)

AKTUATORVORRICHTUNG AUF BASIS EINES ELEKTROAKTIVEN ODER PHOTOAKTIVEN POLYMERS

Title (fr)

DISPOSITIF D'ACTIONNEUR BASÉ SUR UN POLYMÈRE PHOTOACTIF OU ÉLECTROACTIF

Publication

EP 3345228 B1 20181226 (EN)

Application

EP 16760474 A 20160902

Priority

- EP 15183464 A 20150902
- EP 2016070713 W 20160902

Abstract (en)

[origin: WO2017037230A1] An actuator device comprises an electroactive or photoactive polymer arrangement having an effective length over which expansion or contraction is induced by actuation. The effective length is greater than the maximum linear physical dimension of the space occupied by the polymer arrangement. In this way, a compact design is provided which can support a large actuation displacement.

IPC 8 full level

F03G 7/00 (2006.01); **H01L 41/083** (2006.01); **H01L 41/193** (2006.01); **H02N 2/02** (2006.01); **H02N 2/10** (2006.01); **H02N 2/12** (2006.01); **H02N 11/00** (2006.01)

CPC (source: EP RU US)

F03G 7/005 (2021.08 - EP US); **H01H 1/02** (2013.01 - RU); **H02N 2/02** (2013.01 - EP US); **H02N 2/06** (2013.01 - US); **H02N 2/10** (2013.01 - EP US); **H02N 11/006** (2013.01 - EP US); **H10N 30/50** (2023.02 - EP US); **H10N 30/506** (2023.02 - EP US); **H10N 30/857** (2023.02 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2017037230 A1 20170309; CN 107924989 A 20180417; CN 107924989 B 20210824; EP 3345228 A1 20180711; EP 3345228 B1 20181226; JP 2018527874 A 20180920; JP 6464317 B2 20190206; RU 2018111404 A 20191002; RU 2018111404 A3 20200117; RU 2716841 C2 20200317; US 10903762 B2 20210126; US 2018248497 A1 20180830

DOCDB simple family (application)

EP 2016070713 W 20160902; CN 201680050871 A 20160902; EP 16760474 A 20160902; JP 2018511095 A 20160902; RU 2018111404 A 20160902; US 201615755245 A 20160902